Course guide
820071 - LD - Leadership and Management

Last modified: 28/06/2026

Unit in charge: Barcelona East School of Engineering
Teaching unit: 732 - OE - Department of Management.

Degree: BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN MATERIALS ENGINEERING (Syllabus 2010). (Optional subject).

Academic year: 2026 **ECTS Credits:** 6.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: JOSEP COLL BERTRAN

Others: Primer quadrimestre:
JOSEP COLL BERTRAN - Grup: T11, Grup: T12
MERITXELL MASO CARBO - Grup: T11, Grup: T12

Segon quadrimestre:
JOSEP COLL BERTRAN - Grup: T11, Grup: T12
MERITXELL MASO CARBO - Grup: T11, Grup: T12

PRIOR SKILLS

The skills from the BUSINESS subject of the syllabus.

TEACHING METHODOLOGY

The subject is based on the work developed at the classroom, where contents are explained, and practical activities and group presentations take place. There is a practical approach of the topics, especially on the techniques and tools that are useful in management.

LEARNING OBJECTIVES OF THE SUBJECT

To learn the Leadership and Management functions, as the way to excellence.
To acquire the knowledge to place a company (or any organization) in a strategy to find the excellence.
To understand the importance of the Strategic Planning practice in the company and in the organizations.
To know how to manage the basic elements of the Strategic Planning model.
To introduce into the importance of organizational culture, the values within an organization, and other topics related to Business Organization.

STUDY LOAD

Type	Hours	Percentage
Hours small group	15,0	10.00
Hours large group	45,0	30.00
Self study	90,0	60.00

Total learning time: 150 h

CONTENTS

Strategic thinking. Planning. Strategic management.

Description:
The unit focuses on the importance of the strategic thinking and proposes a strategic planning model. And we will also discuss business models and the transformation of organizations.

Specific objectives:
-To be aware of the importance to have a strategic thinking.
-To know the most used model in strategic planning.

Related activities:
- To attend classes.
- Essays about the content of the unit.

Full-or-part-time: 30h
Theory classes: 12h
Self study : 18h

The Management function and Leadership function.

Description:
The unit focuses on the management and leadership concept in a company or organization

Specific objectives:
-To know the management function.
-To know the leadership function.
-To discuss among management function and leadership function.

Related activities:
- To attend classes.
- Essays among different aspects of the unit.

Full-or-part-time: 50h
Theory classes: 20h 20m
Self study : 29h 40m

GRADING SYSTEM

Any academic fraud, plagiarism or use or possession of unauthorised means in an assessment activity leads to a mark of zero (0) for the affected test or assignment. Furthermore, in accordance with the University's regulations, if disciplinary proceedings are initiated the subject is recorded as "Pending Assessment" until a decision is reached. These incidents are managed in accordance with the **Action Framework for Academic Integrity in Assessment at the UPC**.

- Each module will include a series of assignments/exercises and exams/reading test that will determine the module grade. Module 1 will account for 35% of the final course grade and will consist of three assessment activities with the following weights: TR1*25% + EX1*40% + EX2*35%. Module 2 will account for 40% of the final course grade and will consist of three assessment activities with the following weights: TR2*25% + TR3*25% + EX3*50%.
- The remaining 25% of the final course grade will be based on a synthesis work on applied leadership (TSLA).
- Students who do not pass the course through continuous assessment, which is the standard method for evaluating student progress, as well as those who wish to improve their final grade, may take a final modular examination on the last day of class.
- There will be no resit examination.

EXAMINATION RULES.

There are no specific rules.